

## Tennessee Pollution Prevention Partnership Success Story



Marvin  
Windows & Doors  
101 Marvin Road  
Ripley, TN 38063  
731-635-6428  
www.marvin.com



### Marvin Truck Fleet Helps Reduce Air Emissions

#### The Member

Marvin Windows and Doors of Ripley is a family owned business with corporate offices located in Warroad, MN. The Ripley facility was opened in 1980 and has grown to 700 associates primarily on the day shift. When you visit the Marvin W&D Ripley facility, you find a certain type of individual: independent, hard working and strong in character and conviction. It's certainly why some of Marvin's greatest innovations came from their employees. At this location, Marvin produces a high-end door product, including the "storm plus" designed to meet severe weather codes, for residential and commercial applications. Each door assembly is built to order and promptly shipped on Marvin's own fleet and with no finished goods inventory maintained in a warehouse. At Marvin's Ripley facility Continuous Improvement tools are extensively utilized to be the "best in class" and every job is performed one way: right. The Marvin Ripley facility is a TOSHA STAR facility under the Voluntary Protection Program and wants to be known as a great place to work and the employer of choice in Ripley. This dedication may never make Marvin the biggest window and door manufacturer in the world but they believe it makes them the best.

#### The Story

Marvin's Ripley facility is strongly focused on searching out and evaluating any and all opportunities to reduce air pollutants. The Ripley facility operates 28 tractor-trailer trucks. Our trucking group started brainstorming ways to cut freight and fuel

costs. A determination was made that significant freight savings could be generated each month by increasing the utilization of our returning truck fleet after delivery of our products. Working with our suppliers to adjust truck schedules has greatly improved our incoming freight costs.



#### The Success

This project has increased our fleet's return trips with cargo from 36 to an average of 72, thus eliminating the return of an empty trailer. This allows an average savings of \$1350 per trip and 750 freight miles. Incoming freight savings per month will be an average of \$48,600.

#### The Pollution Prevented

Air pollutants eliminated by avoiding paying others for delivery and hauling empty trailers are an estimated 348 lbs of PM10, 648 lbs of Nox, 28,542 lbs of CO2, and 432 lbs of SO2 per month. This information is based upon data provided by the East Tennessee Clean Fuels Coalition.

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